



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/996,271	11/28/2001	Amit Chakraborty	2000P09096 US01	2366

7590 05/09/2005

Siemens Corporation
Intellectual Property Department
186 Wood Avenue South
Iselin, NJ 08830

EXAMINER

ABEL JALIL, NEVEEN

ART UNIT	PAPER NUMBER
----------	--------------

2165

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

87

Office Action Summary

Application No.

09/996,271

Applicant(s)

CHAKRABORTY ET AL.

Examiner

Neveen Abel-Jalil

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 6, 8, 9 and 23-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3, 6, 8 and 9 is/are allowed.
- 6) ☒ Claim(s) 23-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 16-March -2005 has been entered.
2. The amendment filed on 16-March -2005 has been received and entered. Claims 4-5, 7, 10-22, and 28 have been canceled. Therefore, claims 1-3, 6, 8-9, and 23-27 are pending.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (U.S. Pub. No. 2001/0032218 A1) in view of Hagerty et al. (U.S. Pub. No. 2003/0167442 A1).

As to claim 23, Huang discloses a program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for

creating an anchorable information unit file from an unstructured portable document format document (See Huang page 3, paragraph 0043), the method steps comprising:

analyzing a portable document format document to establish page layouts for each page of the portable document format document (See Huang page 3, paragraphs 0042-0046);

creating a structure for each page layout including text portions and non-text portions for each page (See Huang pages 3-4, paragraphs 0046-0049);

parsing the portable document format document into textual portions and non-text portions (See Huang page 4, paragraph 0048);

extracting structure from the textual portions and the non-text portions (See Huang page 4, paragraphs 0053-0054, also see Huang page 5, paragraph 0056);

determining text within textual portions, and the non-text portions (See Huang page 6, paragraphs 0070-0072).

Huang does not teach hyperlinking a plurality of keywords within the textual portions and non-text portions to a related document by creating the anchorable information unit file, wherein the plurality of hyperlinked keywords are anchorable information units.

Hagerty et al. teaches hyperlinking a plurality of keywords within the textual portions and non-text portions to a related document by creating the anchorable information unit file, wherein the plurality of hyperlinked keywords are anchorable information units (See Hagerty et al. pages 9-10, table 3, shows hyperlinking keywords and anchors).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Huang to include hyperlinking a plurality of keywords within the textual portions and non-text portions to a related document by creating the

Art Unit: 2165

anchorable information unit file, wherein the plurality of hyperlinked keywords are anchorable information units.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Huang by the teaching of Hagerty et al. to include hyperlinking a plurality of keywords within the textural portions and non-text portions to a related document by creating the anchorable information unit file, wherein the plurality of hyperlinked keywords are anchorable information units because it provides for customization and efficient data retrieval methods.

As to claim 24, Huang as modified discloses wherein the step of parsing further comprises the step of differentiating color image content from black-and-white content (See Huang page 4, paragraphs 0048-0051, wherein “black-and-white” reads on “color...metadata”).

As to claim 25, Huang as modified discloses wherein the step of extracting further comprises the steps of:

determining a level for extracted textual portions (See Hagerty et al. page 5, paragraph 0073, also see Hagerty et al. page 6, paragraph 0097);

associating the context with the text (See Hagerty et al. page 10, paragraphs 0131-0132).

pattern matching extracted text to the portable document format document to determine a context and a location (See Huang page 1, paragraph 0009, prior art, also see Huang page 3, paragraphs 0042-0046).

As to claim 26, Hagerty et al. as modified discloses wherein the level is one of a paragraph, a heading and a subheading (See Hagerty et al. page 7, paragraphs 0108-0110).

As to claim 27, Huang as modified discloses wherein the step of pattern matching further comprises the steps of:

determining a median font size for the portable document format document (See Huang page 3 paragraphs 0042-0043);

comparing a font size of the extracted text to the median font size for the portable document format document (See Huang pages 5-6, paragraph 0067) and

determining a context according to font size (See Hagerty et al. page 10, paragraphs 0131-0132).

Reasons for Allowance

6. Claims 1-3, 6, and 8-9 are allowed over the prior art made of record.

7. The following is a statement of reasons for allowance:

The prior art of record (JONES et al. -U.S. Pub. No. 2001/0047373 A1-and- Fujita et al. - U.S. Patent No. 6,650,343 B1-and-Gatto et al. -U.S. Patent No. 6,344,906 B1-and Huang -U.S. Pub. No. 2001/0032218 A1-and- Hagerty et al. (U.S. Pub. No. 2003/0167442 A1) do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim), a page layout analyzer to establish page layouts for each page of the unstructured

Art Unit: 2165

multimedia data file, the analyzer creating a structure for each page layout including text section and image sections of each page, as claimed in Independent claim 1.

Claims 2-3, 6, and 8-9 are allowable over the prior art made of record, because they are dependent from the allowable independent claim 1.

Response to Arguments

8. Applicant's arguments with respect to claims 1-3, 6, 8-9, and 23-27 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neveen Abel-Jalil whose telephone number is 571-272-4074.

The examiner can normally be reached on 8:30AM-5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4038. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Art Unit: 2165

system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Neveen Abel-Jalil
May 3, 2005

A handwritten signature in black ink, appearing to read "C. Rones".

CHARLES RONES
PRIMARY EXAMINER